AMENDMENT to the CLAIMS

- 1. (currently amended) A <u>computer-implemented</u> method for converting a <u>multilingual</u> unidirectional domain name to a <u>multilingual</u> bidirectional domain name, said method comprising the steps of:
- receiving into a computer memory device a multilingual unidirectional World Wide Web

 address, said unidirectional World Wide Web address comprising a Uniform Resource

 Locator or a domain name and comprising characters from at least two character sets

 having at least two different display orders;
- breaking by a computer establishing a plurality of labels within a said unidirectional

 World Wide Web address domain name into a plurality of labels delimited by by using a pre-determined full stop punctuation mark as a delimiter between said labels, said labels having an original label display order as encountered from left to right, said labels containing a plurality of characters wherein each character has a determinate display order or an indeterminate display order, said full stop punctuation mark excluding a hyphen-minus character;
- within <u>at least one of said plurality of labels</u> each said label, performing inferencing through resolving <u>display directions</u> the direction of indeterminate <u>display order</u> characters by assigning a strong direction <u>left-to-right display order</u> left or right to each indeterminate <u>display order</u> character; [[and]]
- subsequent to said resolving, converting said multilingual unidirectional World Wide Web address to a multilingual bidirectional World Wide Web address by reordering by a computer said characters within each said label of said unidirectional domain name into a character display order using the fully resolved characters previously inferenced thereby converting said uni-directional domain name to a bidirectional domain name in which wherein said original label display order is preserved[[,]] and bidirectionality of characters within each label is produced[[.]]; and

displaying said multilingual bidirectional World Wide Web address on a computer display.

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2. (currently amended) The method as set forth in Claim 1 wherein said step of inferencing comprises the steps of:

first, assigning a right-to-left direction to Arabic and Hebrew letters; second, assigning a left-to-right direction to full stop characters and other alphabetic characters;

third, resolving the directions of digits; and fourth, resolving the directions of hyphen-minus characters.

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3. (currently amended) The method as set forth in Claim 2 wherein said step of resolving [[the]] directions of digits comprises the steps of:

assigning a right-to-left direction to [[all]] Arabic numerals; and assigning a left-to-right direction to [[all]] European numerals, unless a European numeral is surrounded by right-to-left characters such as Arabic or Hebrew letters, in which case it is assigned assigning a right-to-left direction.

4. (currently amended) The method as set forth in Claim 2 wherein said step of resolving [[the]] directions of hyphen-minus characters comprises:

assigning a left-to-right direction to all hyphen-minus characters which are not surrounded by characters whose direction is right-to-left; and assigning a right-to-left direction to all hyphen-minus characters which are surrounded by characters whose direction is right-to-left.

5. (currently amended) A computer readable memory comprising medium encoded with computer executable software for converting a unidirectional domain name to a bidirectional domain name, said software when executed causing a computer to perform the steps of:

a computer memory device suitable for encoding computer programs; and one or more computer programs encoded by said computer memory device, said computer program:

- receiving into a computer memory device a multilingual unidirectional World Wide Web

 address, said unidirectional World Wide Web address comprising a Uniform

 Resource Locator or a domain name and comprising characters from at least two character sets having at least two different display orders;
- breaking by a computer said unidirectional World Wide Web address into a plurality of labels delimited by pre-determined full stop punctuation mark between said labels, said labels having an original label display order as encountered from left to right, said labels containing a plurality of characters wherein each character has a determinate display order or an indeterminate display order, said full stop punctuation mark excluding a hyphen-minus character;
- within at least one of said plurality of labels, performing inferencing through resolving
 display directions of indeterminate display order characters by assigning a strong
 direction left-to-right display order to each indeterminate display order character;
- Subsequent to said resolving, converting said multilingual unidirectional World Wide

 Web address to a multilingual bidirectional World Wide Web address by
 reordering by a computer said characters within each said label into a display
 order using the fully resolved characters previously inferenced wherein said
 original label display order is preserved and bidirectionality of characters within
 each label is produced; and
- displaying said multilingual bidirectional World Wide Web address on a computer display.
- establishing a plurality of labels within a unidirectional domain name by using a

 pre-determined full stop punctuation mark as a delimiter between said labels, said labels

 having an original label display order as encountered from left to right;

6. (currently amended) The computer readable medium memory as set forth in Claim 5 wherein said software for inferencing comprises software for performing the steps of:

first, assigning a right-to-left direction to Arabic and Hebrew letters; second, assigning a left-to-right direction to full stop characters and other alphabetic characters;

third, resolving the directions of digits; and fourth, resolving the directions of hyphen-minus characters.

7. (currently amended) The computer readable medium memory as set forth in Claim 6 wherein said software for resolving [[the]] directions of digits comprises software for performing the steps of:

assigning a right-to-left direction to [[all]] Arabic numerals; and assigning a left-to-right direction to [[all]] European numerals, unless a European numeral is surrounded by right-to-left characters such as Arabic or Hebrew letters, in which case it is assigned assigning a right-to-left direction.

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8. (currently amended) The computer readable medium memory as set forth in Claim 6 wherein said software for resolving [[the]] directions of hyphen-minus characters comprises software for performing the steps of:

assigning a left-to-right direction to all hyphen-minus characters which are not surrounded by characters whose direction is right-to-left; and assigning a right-to-left direction to all hyphen-minus characters which are surrounded by characters whose direction is right-to-left.

9. (currently amended) A system which converts for converting a unidirectional domain name to a bidirectional domain name comprising:

- an input portion of a computing platform receiving into a computer memory device a

 multilingual unidirectional World Wide Web address, said unidirectional World

 Wide Web address comprising a Uniform Resource Locator or a domain name

 and comprising characters from at least two character sets having at least two

 different display orders;
- a label definer portion of a computer platform breaking said unidirectional World Wide

 Web address into a plurality of labels delimited by pre-determined full stop

 punctuation mark between said labels, said labels having an original label display

 order as encountered from left to right, said labels containing a plurality of

 characters wherein each character has a determinate display order or an

 indeterminate display order, said full stop punctuation mark excluding a hyphen
 minus character adapted to establish a plurality of labels within a unidirectional

 domain name by using a pre-determined full stop punctuation mark as a delimiter

 between said labels, said labels having an original label display order as

 encountered from left to right;
- an inferencer portion of a computing platform performing within at least one of said

 plurality of labels inferencing through resolving display directions of

 indeterminate display order characters by assigning a strong direction left-to-right

 display order to each indeterminate display order character adapted to, within

 each said label, resolve the direction of indeterminate characters by assigning a

 strong direction left or right to each indeterminate character; [[and]]
- a character reorderer portion of a computing platform converting subsequent to said
 resolving said multilingual unidirectional World Wide Web address to a
 multilingual bidirectional World Wide Web address by reordering by a computer
 said characters within each said label into a display order using the fully resolved
 characters previously inferenced wherein said original label display order is
 preserved and bidirectionality of characters within each label is produced; and

adapted to reorder said characters within each said label of said unidirectional domain name into character display order using the fully resolved characters previously inferenced, thereby converting said uni-directional domain name to a bidirectional domain name in which said original label display order is preserved, and bidirectionality of characters within each label is produced.

- a user display portion of said computing platform displaying said multilingual bidirectional World Wide Web address on a computer display.
- 10. (currently amended) The system as set forth in Claim 9 wherein said inferencer comprises:
 - a first direction assignor [[for]] assigning a right-to-left direction to Arabic and Hebrew letters;
 - a second direction assignor [[for]] assigning a left-to-right direction to full stop characters and other alphabetic characters;
 - a third direction assignor [[for]] resolving the directions of digits; and
 - a fourth direction assignor for resolving the directions of hyphen-minus characters.
- 11. (currently amended) The system as set forth in Claim 10 wherein said third direction assignor comprises:
 - a right-to-left direction assignor [[for]] <u>operative on</u> [[all]] Arabic numerals, and for all European numerals which are surrounded by right-to-left characters such as Arabic and Hebrew letters; and
 - a left-to-right direction assignor [[for]] <u>operative on</u> [[all]] European numerals which are not surrounded by right-to-left characters such as Arabic or Hebrew letters.
- 12. (currently amended) The system as set forth in Claim 10 wherein said fourth direction assignor comprises:
 - a left-to-right direction assignor for [[all]] hyphen-minus characters which are not surrounded by characters whose direction is right-to-left; and
 - a right-to-left direction assignor for [[all]] hyphen-minus characters which are surrounded by characters whose direction is right-to-left.

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13. (previously presented) The method as set forth in Claim 1 wherein said pre-determined full stop punctuation mark used as a delimiter between said labels comprises a Latin period punctuation mark.

- 14. (currently amended) The computer-readable medium memory as set forth in Claim 5 wherein said pre-determined full stop punctuation mark used as a delimiter between said labels comprises a Latin period punctuation mark.
- 15. (currently amended) The system as set forth in Claim 9 wherein said pre-determined full stop punctuation mark used as a delimiter between said labels comprises a Latin period punctuation mark.